



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of
ALONZO W. BEASLEY, JR.

Serial No: 10/684,639

Examiner: Singh, Arti R.

Filed: October 14, 2003

Art Unit: 1771

Title: MOTOR VEHICLE AIRBAG AND
FABRIC FOR USE IN SAME

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

DECLARATION UNDER 37 CFR 1.131

Dear Commissioner:

I, the individual whose signature appears below, do hereby declare that:

1. I am an officer of Safety Components Fabric Technologies, Inc., owner of the above patent application by virtue of written assignment from the inventor.

2. This application was filed on October 14, 2003, but claims the benefit of application Serial No. 09/558,766, filed April 26, 2000.

3. I have been advised that all claims of the application have been rejected as being unpatentable over the disclosure of U.S. Patent No. 6,455,449 to Veiga et al. issued on September 24, 2002, and filed on September 3, 1999.

4. The present invention resides in the discovery that urethane-coated airbag fabrics may include a base fabric made from finer denier yarns of alternating deniers which produces a crest and trough pattern on the surface that enhances urethane adhesion.

5. As supported by the factual evidence submitted herewith, the claimed invention was conceived and, on information and belief, was reduced to practice prior to September 3, 1999.

BEST AVAILABLE COPY

6. The originals of Exhibits A through C discussed hereinafter in detail were all prepared prior to September 3, 1999. Actual dates and prospective customer name have been deleted.

7. As evidenced by Exhibit A, a base fabric of 315d warp and alternating fill of 315d and 210d denier was prepared. This fabric was designated style 4934. The first two pages of Exhibit A make up the request from the inventor for a sample of this fabric. Note that the "endues" of the fabric is indicated to be "airbag." The third page of Exhibit A is a "Sample Specification" for this fabric. The fourth page is a "Warping, Processing, Weaving Order and Headend Ticket" (stamped "Air Bag") for this fabric. After the base fabric was made, it was tested as indicated by the "Certificate of Conformance" forming the last two pages of Exhibit A.

8. Exhibit B indicates that another sample of style 4934 was prepared. This base fabric also had 315d warp and alternating fill of 315d and 210d denier. The first page of Exhibit B is a "Sample Specification" for this fabric. The third page is a "Warping, Processing, Weaving Order and Headend Ticket" (stamped "Air Bag") for this fabric. After the base fabric was made, it was tested as indicated by the "Certificate of Conformance" forming the last two pages of Exhibit B.

9. As evidenced by Exhibit C, a base fabric of 420d warp and alternating fill of 420d and 315d denier was prepared. This fabric, designated style 4951, was requested by the document making up the first two pages of Exhibit C. After the base fabric was made, it was tested as indicated by the "Certificate of Conformance" forming the last two pages of Exhibit C.

10. A style 4934 base fabric was sent to the prospective customer (a coater), whereupon a urethane coating was applied. Satisfactory adhesion levels were reported.

11. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

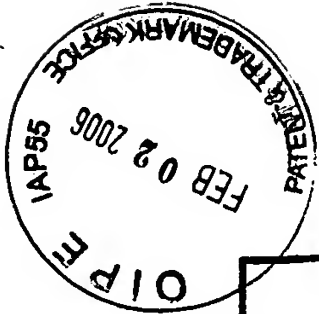
SAFETY COMPONENTS FABRIC TECHNOLOGIES, INC.

Signed: ✓ Stephen B. Duark

Name: ✓ Stephen B. Duark

Title: ✓ President

Date: ✓ 1-31-05



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Assignor Alonzo W. Beasley, Jr.

Application No./Patent No.: 10/684,639 Filed/Issue Date: October 14, 2003

Entitled: Motor Vehicle Air Bag and Fabric for Use in Same

Safety Components Fabric Technologies, Inc. corporation
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.
The extent (by percentage) of its ownership interest is _____ %

in the patent application/patent identified above by virtue of either:

A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 010758, Frame 0187, or for which a copy thereof is attached.

OR

B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

3. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☐ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

✓ Stephen B. Duck

Signature

✓ Stephen B. Duck

Printed or Typed Name

✓ President

Title

✓ 1-31-05

Date

✓ 864-240-2678

Telephone Number

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1480, Alexandria, VA 22313-1480. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1480, Alexandria, VA 22313-1480.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

EXHIBIT A

Bush

PROD. REQ. & COST FORM

TO: FRANCISCO EEDOYA DATE _____

I. MARKETING

CUSTOMER: _____ CUST. S/# _____ C/R# 10-387

SCFTI S/#: 4934-02 WEAVE: Plain ENDUSE: Aib. LEVEL 4

GR. (MIN/NOM.)	FIN. (MIN./NOM.)	YES	NO
ENDS/IN: <u>55</u>	<u>60</u>	WARP SIZE OK	<u>X</u>
PICKS/IN: <u>64</u> <u>54</u> <u>Back</u>	<u>63-65</u>	SPUN YARN TINT	_____
WIDTH: <u>75-76</u>	<u>69.5-70.5</u>	HI. TEN REQD	_____

WARP: 315 / 144 / T-447 AK20 OLD/NEW _____

FILL: 315 / 144 / T-447 AK20 (See Both) (pick + peak) AKB OLD/NEW _____

SCFTI PROCESS: 210/68/R-20 Dupont Nylon

GREIGE	_____	CUT LENGTH RANGE	<u>500 yds.</u>
HEATSET IN THE GR.	_____	MIN PC. LENGTH	<u>200</u>
SCOUR & HEATSET	<u>X</u>	SPLICES ALLOWED	<u>600</u>
APPLY & FINISH	_____	PACKAGING	<u>400</u>

DESCRIBE FINISH: _____ FINISH CODE: 8036

CFM RANGE: NA CUST. SPEC # TDD DATED: _____
COPY OF CUST. SPEC ATTACHED _____ (TEST REQ. Y/N) (CERT REQ Y/N)
DEPT#: _____

II. TECHNICAL

TYPE LOOM: 210/68/R-20 Dupont Nylon MULTIPLE PICKS - YES/NO NO EQUIVALENT PICKS: NA
YARDS PER BEAM: NA (WARP IN PLANT & NEW YARNS ONLY)

CONST. IN LOOM: REED WIDTH: 41.25 SLEY: 520 OFF LM PICKS: 640

WARP: 315 / 144 / T-447 AK20

FILLING: 315 / 144 / T-447 AK20 pick and peak

WARP YDS/LB: NA FILLING YDS/LB: 14.150 = 315 / 220 x 210 den.

EST. WARP CONTRACTION: NA REMARKS: sample for

SIGNATURE: _____ DATE: _____

PROCESSES REQUIRED: (CIRCLE AS APPLICABLE)

PREPARATION	WEAVING	FINISHING	FINAL	TESTING
WINDING	<u>DORNIER</u>	BATCH	SLIT	INTERNAL
TWISTING (IN/OUT)	SULZER	<u>SCOUR</u> JIG/CONT.	<u>INSPECT</u>	<u>CUST. LOT</u>
WARPING (IN/OUT)		CAN DRY	<u>PACK</u>	<u>NONSTD.</u>
(BLOCK/TRANS.)		CONTACT HT SET SHIP		PEAP
BEAMING/SLASHING		CALENDER/TENTER		ANNUAL
				QUAL.

III. ENGINEERING
LOOMS/WEAVER: _____

OTHER: _____

IV. COST DEPARTMENT

DATE FWDED: _____

YDS/LOOM
120 HRS. _____

TARGET CONTRIBUTION
LOOM/WK _____ YD _____

FAB. WT. _____

OZ./SQ. YD. _____

COST: _____

VAR./YD: _____

FX/YD: _____

B/E/YD: _____

MIN. YD: _____

TAR. YD: _____

YARN PRICE: _____

WARP: _____

FILL: _____

SPECIAL INSTRUCTIONS: _____

DISCLAIMERS/COMMENTS: _____

A. _____

630 D.

has adhesion problem with low Denier before

B. _____

Run this as pattern 02.

C. _____

Pick insertion should be 1/2 and 1/2 of two filling
yarns. See front.

D. _____

Low Tenure on warp yarn.

E. _____

This is final OKAY

SUBMITTED BY _____

DATE: _____

APPROVED BY MARKETING MGR. _____

DATE: _____

APPROVED BY DIR. TECH. SVCS _____

DATE: _____

REJ. (APPR) TECH. SERV. MGR. _____

DATE: _____

APPROVED BY MFG. REF. COMM. _____

DATE: _____

FORWARD TO: _____

OR _____

CC: _____

J. ANDERSON

J. UNDERWOOD

S. DUERK

D. HARVELL

STYLE M ER LISTING
Sample by

AGE:

Comments: As c/r #10-387 var. W4934-01

RMAIL 1618 210/68 R20 T-729 TUBES FROM DUPONT

Revision date: 01/25/1999 By: TK

original

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WARPING ORDER

F-1017 11/96

(RE: QMS - 102)

SAFETY COMPONENTS FABRIC TECHNOLOGIES, INC. - DUNEAN PLANT - 80

WARPING, PROCESSING, WEAVING ORDER AND HEADEND TICKET

STYLE: W-4934 EXP.-2 TYPE CLOTH: NYLON COATING AIR BAGS DATE: _____

NO. REED DENT ENDS TOTAL
BEAMS: 1 SPREAD: 81.23" REED: 26.00 DENT: 2 DENTS: 2156" SLEY: 52.00 SHAFTS: 8

DRAW: STRAIGHT WEAVE: PLAIN EST % TYPE DIST. BTWN
DEPT.: 10 BODY WEAVE: PLAIN CONT: 8% LOOM: DORNIER BM. HEAD: 81.75"
ENDS: 4224 SELV: 1 TOTAL
WEIGHT
PER YARD: .0001

SELVAGE: ** 1 END 420/68 DEN. DARK BLUE NYLON - HEAT SLIT AT LOOM

FILLING A: 315/144/T-447 AKZO SCOTTSBORO NYLON PICKS: 32 WT/YD: .1959
(14,160)

FILLING B: 210/68/R-20 DUPONT NYLON PICKS: 32 WT/YD: .1308
*INCLUDES 22 DENTS EACH SIDE FOR CATCH CORD, LENO, ETC. (21,250)

FILLING C: _____ PICKS: _____ WT/YD: _____

WARP A: 315/144/T-447 AKZO SCOTTSBORO NYLON NO. ENDS: 4224 WT/YD: .3245
NO TINT - NO CUT MARKS (14,150)

WARP B: ** ADDED AT SLASHER 24 ENDS FROM LEFT NO. ENDS: _____ WT/YD: _____
EDGE AT SLASHER

WARP C: _____ NO. ENDS: _____ WT/YD: _____

WARPING LAYOUT

MAY ALSO BE WASHED BELOW:

12 - BMS @ 0 352 0
SELV. BODY A SELV.

_____ - BMS @ _____
SELV. BODY SELV.

_____ - BMS @ _____
SELV. BODY A SELV.

_____ - BMS @ _____
SELV. BODY SELV.

_____ - BMS @ _____
SELV. BODY SELV.

_____ - BMS @ _____
SELV. BODY SELV.

FOR HEADEND TICKET:
GREIGE EST. ACT. % GROUND OVERALL
WIDTH _____ WEIGHT _____ CONT _____ COUNT _____ COUNT: _____

ISSUED BY: FRANCISCO BEDOYA Francisco Bedoya DATE: _____

cc: BURTON, REESE, HALEY, HAVER, B. JAMES, D. ROBBINS, WEAVE ROOM, J. GLENN
D-10 R. DEATHERAGE (3), FRANCISCO BEDOYA (3) D-10

CERTIFICATE OF CONFORMANCE

PAGE 1 OF 2

MANUFACTURER: Safety Components Fabric Tech. Inc.
Duncan Plant
Greenville, SC

TEST CONDITIONS: 72°F / 65% R.H.

CUSTOMER ID:

315/210

MATERIAL: W4934-02-9026

LOT: 20699

TEST DATE:

SPECIFICATION: TBD

Piece No. Sample No.	8661F			Specification Requirement	UNIT OF MEASURE	TEST PROCEDURES
GRAB TENSILE HARP	427	0	0	Min:	Pounds	ASTM-D-5034
FILLING	359	0	0	Min:	Pounds	ASTM-D-5034
ELONGATION HARP	42	0	0	Min: Max:	Percent	ASTM-D-5034
FILLING	44	0	0	Min: Max:	Percent	ASTM-D-5034
TORSION TEAR HARP	27	0	0	Min:	Pounds	ASTM-D-2261
FILLING	26	0	0	Min:	Pounds	ASTM-D-2261
TRAPEZOID TEAR HARP	0	0	0	Min:	Pounds	ASTM-D-4533
FILLING	0	0	0	Min:	Pounds	ASTM-D-4533
SHRINKAGE HARP	1.56	0.00	0.00	Max:	Percent	1 HR @ 300 F
FILLING	0.00	0.00	0.00	Max:	Percent	1 HR @ 300 F
FLAMMABILITY	0.0	0.0	0.0	Max:	IN/MIN	FMVSS-302
BCW				Max:	Percent	
BIAS				Max:	Percent	
WEIGHT	5.14	0.00	0.00	Min: Max:	OS/YD2	ASTM-D-3776
WIDTH	70.0	0.0	0.0	Min: Max:	INCHES	ASTM-D-3774
EDS	59.4	0.0	0.0	Min: Max:	EPI	ASTM-D-3775
PICKS	63.4	0.0	0.0	Min: Max:	PPI	ASTM-D-3775
BODY THICKNESS	.010	0.000	0.000	Min: Max:	Inches	ASTM-D-1777
DYNAMIC AIR PERM ADAP				Min: Max:	cm/sec	T.B.D.
EXFONENT				Min: Max:		T.B.D.

lot: 20699

Page 2 of 2

Material: W4934-02-9026

Piece No. Sample No.	66617			Specification Requirement	UNIT OF MEASURE	TEST PROCEDURES
MULLIN BURST NET				Min:	PSI	ASTM-D-3786
pH	7.5			Min: Max:	pH units	FTM 191
EXTRACTABLES (%)	.2			Max:	Percent	JPS 701
DYE STAIN	5			Min: 4	AAVOC CHECK UNITS	JPS 701
AIR PERMEABILITY	0.00	0.00	0.00	Min: Max:	CFM	ASTM-D-737
CANTILEVER STIFFNESS WARP	0.0	0.0	0.0	Min: Max:	MG/CM2	ASTM-D-4032
FILL	0.0	0.0	0.0	Min: Max:	MG/CM2	ASTM-D-4032
CIRCULAR BEND WARP	.700	0.000	0.000	Min: Max:	Pounds	ASTM 4032
FILL	.700	0.000	0.000	Min: Max:	Pounds	ASTM 4032

I certify that the above tests were performed under my supervision in accordance with specification test requirements and that the reported test results are true, valid, and applicable to the samples tested. Test results as shown are within the acceptance limits for the parameters of the above material specifications except as noted with an asterisk (*).

ROBERT H. BOLOCHER LAB DIRECTOR
(864) 240-2624

F-1068 (5/96)

[NI-2021]

THIS REPORT MAY NOT BE REPRODUCED EXCEPT IN TOTAL WITHOUT THE
PERMISSION OF THE ORIGINATOR.

INFORMATION ONLY

EXHIBIT B

VENTY COMPC VTS FABRIC
TECHNOLOGIES, INC.

STYLE W/ FR LISTING
Sample Specification

Page:

style:	W4934-0003-9026		Level:	IV	
description:	315 60 x 64 Accordis Low Warp tension		U/M:	YD	
abric:	8 harness and 6 banks of drop wires, 718 air space reed				
save:	Dupont t-6.6 nylon				
	Plain PICK AND PICK WITH 2 FILLING YARDS				
	WEAVE 3 LOTS				
acc:	Either				
save cut (yds):	200	Weave picks/inch:	64.00		
ages:	Heat slit at loom				
type also:	BP-44C-49 SOLIDS IN SIZE BOX, 18 STRETCH ON SLASHING				
char:	1 end 420/68 dk blue nylon 24 ends from left side at slasher				
status:	ACT				
Department no:	10				
Product code:	89 Airbag - driver uncoated				
Loom type:	Dornier general				
Primary customer:	L. BEASLEY				
Requested by:	L. BEASLEY				
Reed width:	81.23				
Dents/inch:	26.000				
Reeds/dent:	2				
Sley count:	52.000				
No. ends:	4,224				
arp yarn code:	RML1539				
description:	Supplier: ACCORDIS INDUSTRIAL FIBRES 315/144 T-447 HRT-8 Accordis Scottaboro Nylon				
wist:	Airbag Beams				
args:	None				
all yarn code:	RML1539				
description:	Supplier: ACCORDIS INDUSTRIAL FIBRES 315/144 T-447 HRT-8 Accordis Scottaboro Nylon				
wist:	Airbag Tubes				
args:	None				
actaging:	See final inspection instructions				
radling:	See final inspection instructions				
urpase:	nylon coating fabric (Air bag)				
ube size:	See final inspection instructions				
td wt (yds/lb):	1.59	Width (in):	Min	Max	Target
eight (lbs/yd):	0.628	Count (W x P):	75.50	76.50	76.00
flow dev %:	3.00	Wt (oz/eyd):	54 x 63	56 x 65	55 x 64
			4.71	4.71	4.71
comments:	As c/r 810-407 as W4934-02				
	FILLING YARN 82				
	RML 0053 210/72 T-447 HRT TUBES FROM ACCORDIS, 100% NYLON				
Current rev:	000				
Revision date:	08/10/1999				
By:	TK				
	ORIGINAL				
Width (in):	Min	Max	Target		
Count (W x P):	58 x 62	62 x 66	60 x 64		
Wt (oz/eyd):	4.93	4.93	4.93		

WARPING ORDER

F-1017 11/88

(RE: QMS - 102)

SAFETY COMPONENTS FABRIC TECHNOLOGIES, INC. - DUNEAN PLANT - 80

WARPING, PROCESSING, WEAVING ORDER AND HEADEND TICKET

STYLE: W-4934 EXP.-3 TYPE CLOTH: NYLON COATING AIR BAGS DATE: _____

NO. REED DENT ENDS TOTAL
BEAMS: 1 SPREAD: 81.23" REED: 26.00 DENT: 2 DENTS: 2158" SLEY: 52.00 SHAFTS: 8

DRAW: STRAIGHT WEAVE: PLAIN EST % TYPE
DEPT.: 10 BODY WEAVE: PLAIN CONT: 8% LOOM: DORNIER
ENDS: 4224 SELV
ENDS: 1

DIST. BTWN
BM. HEAD: 81.75"
TOTAL
ENDS: 4225
WEIGHT
PER YARD: .0001

SELVAGE: ** 1 END 420/68 DEN. DARK BLUE NYLON - HEAT SLIT AT LOOM

FILLING A: 315/144/T-447 AKZO SCOTSBORO NYLON PICKS: 32 WT/YD: .1858
(14,150)

FILLING B: 210/72/R-20 ACORDIS 100% T-447 HRT FROM AKZO PICKS: 32 WT/YD: .1305
*INCLUDES 22 DENTS EACH SIDE FOR CATCH CORD, LENO, ETC. (21,250)

FILLING C: _____ PICKS: _____ WT/YD: _____

WARP A: 315/144/T-447 AKZO SCOTSBORO NYLON NO. ENDS: 4224 WT/YD: .3245
NO TINT - NO CUT MARKS (14,150)

WARP B: ** ADDED AT SLASHER 24 ENDS FROM LEFT NO. ENDS: _____ WT/YD: _____
EDGE AT SLASHER

WARP C: _____ NO. ENDS: _____ WT/YD: _____

WARPING LAYOUT

MAY ALSO BE WARPED AS BELOW

AIR BAG

12 - BMS @ 0 352 0
SELV. BODY A SELV.

- BMS @ _____
SELV. BODY A SELV.

- BMS @ _____
SELV. BODY SELV.

- BMS @ _____
SELV. BODY SELV.

- BMS @ _____
SELV. BODY SELV.

- BMS @ _____
SELV. BODY SELV.

FOR HEADEND TICKET:
GREIGE EST. ACT. % GROUND OVERALL
WIDTH WEIGHT CONT COUNT COUNT:

ISSUED BY: FRANCISCO BEDOYA Francisco Bedoya DATE: _____

cc: BEASLEY, BURTON, REESE, HALEY, HAYER, B. JAMES, D. ROBBINS, WEAVE ROOM, J. GLENN
D-10 R. DEATHERAGE (3), FRANCISCO BEDOYA (3) D-10

CERTIFICATE OF CONFORMANCE

TEST CONDITIONS: 72°F / 65% R.H.

MANUFACTURER: Safety Components Fabric Tech. Inc.
Duncan Plant
Greenville, SC

CUSTOMER ID:

INFORMATION ONLY

MATERIAL: W4934-03-9026

LOT: 21138

TEST DATE:

SPECIFICATION: TBD

Piece No. Sample No.	17530	17540		Specification Requirement	UNIT OF MEASURE	TEST PROCEDURES
GRAB TENSILE WARP	450	442	0	Min:	Pounds	ASTM-D-5034
FILLING	379	389	0	Min:	Pounds	ASTM-D-5034
ELONGATION WARP	38	38	0	Min: Max:	Percent	ASTM-D-5034
FILLING	39*	40*	0	Min: Max:	Percent	ASTM-D-5034
TONGUE TEAR WARP	28	27	0	Min:	Pounds	ASTM-D-2261
FILLING	27	27	0	Min:	Pounds	ASTM-D-2261
TRAPEZOID TEAR WARP	0	0	0	Min:	Pounds	ASTM-D-4533
FILLING	0	0	0	Min:	Pounds	ASTM-D-4533
SHRINKAGE WARP	1.56	1.56	0.00	Max:	Percent	1 HR @ 300 F
FILLING	.31	.31	0.00	Max:	Percent	1 HR @ 300 F
FLAMMABILITY	0.0	0.0	0.0	Max:	IN/MIN	FMVSS-302
BOB	.31	.50		Max:	Percent	
BIAS	.75	.75		Max:	Percent	
WEIGHT	5.02	4.99	0.00	Min: Max:	01/YD2	ASTM-D-3776
WIDTH	70.5	71.0	0.0	Min: Max:	INCHES	ASTM-D-3774
EDS	58.3	58.3	0.0	Min: Max:	EPI	ASTM-D-3775
PICKS	62.6	62.5	0.0	Min: Max:	PPI	ASTM-D-3775
BODY THICKNESS	.010	.010	0.000	Min: Max:	Inches	ASTM-D-1777
DYNAMIC AIR PERM ADAP				Min: Max:	cm/sec	T.B.D.
EXPOSURE				Min: Max:		T.B.D.

lot: 21138

Material: W4934-03-9026

Piece No. Sample No.	17530	17540		Specification Requirement	UNIT OF MEASURE	TEST PROCEDURES
HULL BURST NET				Min:	PSI	ASTM-D-3786
PH	7.1	6.8		Min: Max:	pH units	FM 191
EXTRACTABLES (%)	.5	.6		Max:	Percent	JPS 701
DYE STAIN	5	5		Min: 4	AAPOC CROCK UNITS	JPS 701
AIR PERMEABILITY	2.04	2.00	0.00	Min: Max:	CFM	ASTM-D-737
CANTILEVER STIFFNESS WARP FILL	0.0	0.0	0.0	Min: Max:	MG/CM2	ASTM-D-4032
	0.0	0.0	0.0	Min: Max:	MG/CM2	ASTM-D-4032
CIRCULAR BEND WARP FILL	.800	.800	0.000	Min: Max:	Pounds	ASTM 4032
	.800	.800	0.000	Min: Max:	Pounds	ASTM 4032

I certify that the above tests were performed under my supervision in accordance with specification test requirements and that the reported test results are true, valid, and applicable to the samples tested. Test results as shown are within the acceptance limits for the parameters of the above material specifications except as noted with an asterisk (*).

ROBERT M. WELCHES LAB DIRECTOR
(864) 240-2624

F-1065 (5/96)

[WI-2021]

THIS REPORT MAY NOT BE REPRODUCED EXCEPT IN TOTAL WITHOUT THE PERMISSION OF THE ORIGINATOR.

INFORMATION ONLY

EXHIBIT C

PROD. REQ.

COST FORM

DATE

TO: FRANCISCO BEDOYA

I. MARKETING

CUSTOMER:

CUST. S/N

C/R# 10-386

SCFTI S/N

28355

WEAVE:

Plain

ENDUSE:

Finlay

LEVEL

4

GR. (MIN./NOM.)
ENDS/IN: 41-43
PICKS/IN: 48-50
WIDTH: 69.5-70.5

FIN. (MIN./NOM.)
44-
49
65-66

WARP SIZE OK
SPUN YARN TINT
HI. TEN REQD

YES

NO

WARP: 420/68/R20 Nylon Dupont T743

OLD/NEW

FILL: 420/68/1220 Nylon Dupont T743 (1/2)
315/96/R20 Nylon Dupont T729 (1/2)

OLD/NEW

SCFTI PROCESS:

GREIGE

HEATSET IN THE GR.

SCOUR & HEATSET

APPLY & FINISH

CUT LENGTH RANGE
MIN PC. LENGTH
SPLICES ALLOWED
PACKAGING

500

200

yes

5.5 Spinal Tube

Wrapped in clear plastic

FINISH CODE: 9021

DESCRIBE FINISH:

CFM RANGE: NA

CUST. SPEC #

TBD

DATED:

COPY OF CUST. SPEC ATTACHED

(TEST REQ. Y/N)

(CERT REQ Y/N)

DEPT#:

10

II. TECHNICAL

TYPE LOOM:

Downing

MULTIPLE PICKS - YES/NO EQUIVALENT PICKS: 1/2

YARDS PER BEAM:

N/A

(WARP IN PLANT & NEW YARNS ONLY)

CONST. IN LOOM:

REED WIDTH:

74.60"

SLEY:

40.0

OFF LM PICKS:

490

WARP:

420/68/R20

Nylon Dupont

T-743

FILLING:

315/96/R20

Nylon Dupont

T-729

Pick and piece

WARP YDS/LB:

10.600

FILLING YDS/LB:

10.600: 4207

14-15: 2.5

EST. WARP CONTRACTION:

890

REMARKS:

sample part

SIGNATURE:

DATE: 5-21-99

PROCESSES REQUIRED: (CIRCLE AS APPLICABLE)

PREPARATION

WINDING

TWISTING (IN/OUT)

WARPING (IN/OUT)

(BLOCK/TRANS.)

BEAMING/SLASHING

WEAVING

DORNIER

SULZER

FINISHING

BATCH

SCOUR - JIG/CONT.

CAN DRY

CONTACT HT SET SHIP

CALENDER/TENTER

FINAL

SLIT

INSPECT

PACK

TESTING

INTERNAL

CUST. LOT

NONSTD.

PPAP

ANNUAL

QUAL.

III. ENGINEERING
LOOMS/WEAVER: _____

OTHER: _____

DATE FWDED: _____

IV. COST DEPARTMENT

YDS/LOOM
120 HRS. _____

TARGET CONTRIBUTION
LOOM/WK _____ YD _____

FAB. WT. _____

OZ./SQ. YD. _____

COST: _____

VAR./YD: _____

FX/YD: _____

B/E/YD: _____

MIN. YD: _____

TAR. YD: _____

YARN PRICE: _____

WARP: _____

FILL: _____

SPECIAL INSTRUCTIONS: _____

DISCLAIMERS/COMMENTS:

A) *Urethane adhesion values below 630d are very low. Trial evaluation by making surface rougher with two different abrasives should provide better surface adhesion.*

B) *If successful would reevaluate in warp and fill.*

SUBMITTED BY *J. H. Schumacher*

DATE: _____

APPROVED BY MARKETING MGR. *Lo. B. J. Schumacher*

DATE: _____

APPROVED BY DIR. TECH. SVCS *K. Bate*

DATE: _____

REJ. APPR TECH. SERV. MGR. *K. Bate*

DATE: _____

APPROVED BY MFG. REF. COMM. *K. Bate*

DATE: _____

FORWARD TO: _____

OR _____

CC: _____

J. ANDERSON
J. UNDERWOOD

S. DUERK
D. HARVELL

(RE: OMS-102)

CERTIFICATE OF CONFORMANCE

MANUFACTURER: Safety Components Fabric Tech. Inc.
Dunsmuir Plant
Greenville, SC

TEST CONDITIONS: 72°F / 65% R.H.

CUSTOMER ID:

MATERIAL: W4951-01-9026

LOT: 20701

TEST DATE:

SPECIFICATION: TBD

Place No. Sample No.	8619T			Specification Requirement	UNIT OF MEASURE	TEST PROCEDURES
GRAB TENSILE WARP	430	0	0	Min:	Pounds	ASTM-D-5034
FILLING	424	0	0	Min:	Pounds	ASTM-D-5034
ELONGATION WARP	34	0	0	Min: Max:	Percent	ASTM-D-5034
FILLING	43	0	0	Min: Max:	Percent	ASTM-D-5034
TONGUE TEAR WARP	47	0	0	Min:	Pounds	ASTM-D-2261
FILLING	41	0	0	Min:	Pounds	ASTM-D-2261
TRAPZOID TEAR WARP	0	0	0	Min:	Pounds	ASTM-D-4533
FILLING	0	0	0	Min:	Pounds	ASTM-D-4533
SHRINKAGE WARP	1.25	0.00	0.00	Max:	Percent	1 HR @ 300 F
FILLING	0.00	0.00	0.00	Max:	Percent	1 HR @ 300 F
FLAMMABILITY	0.0	0.0	0.0	Max:	IN/MIN	FMVSS-302
BOW	.56			Max:	Percent	
BIAS	.50			Max:	Percent	
WEIGHT	5.10	0.00	0.00	Min: Max:	OS/YDZ	ASTM-D-3776
WIDTH	66.0	0.0	0.0	Min: Max:	INCHES	ASTM-D-3774
ENDS	44.5	0.0	0.0	Min: Max:	NPI	ASTM-D-3775
PICKS	48.3	0.0	0.0	Min: Max:	PPI	ASTM-D-3775
BOY THICKNESS	.012	0.000	0.000	Min: Max:	Inches	ASTM-D-1777
DYNAMIC AIR PERM ADAP				Min: Max:	mm/sec	T.B.D.
EXPOIMENT				Min: Max:		T.B.D.

Material: W4951-01-9026

lot: 20701

Page 2 of 2

Piece No. Sample No.	86197			Specification Requirement	UNIT OF MEASURE	TEST PROCEDURES
MULLER BURST NET				Min:	PSI	ASTM-D-3786
pH	7.0			Min: Max:	pH units	FTM 191
EXTRACTABLES (%)	.5			Max:	Percent	JPS 701
DYE STAIN	5			Min: 4	AATCC CROCK UNITS	JPS 701
AIR PERMEABILITY	6.04	0.00	0.00	Min: Max:	CFM	ASTM-D-737
CANTILEVER STIFFNESS WARP	0.0	0.0	0.0	Min: Max:	MG/CM2	ASTM-D-4032
FILL	0.0	0.0	0.0	Min: Max:	MG/CM2	ASTM-D-4032
CIRCULAR BEND WARP	0.000	0.000	0.000	Min: Max:	Pounds	ASTM 4032
FILL	0.000	0.000	0.000	Min: Max:	Pounds	ASTM 4032

I certify that the above tests were performed under my supervision in accordance with specification test requirements and that the reported test results are true, valid, and applicable to the samples tested. Test results as shown are within the acceptance limits for the parameters of the above material specifications except as noted with an asterisk (*).

ROBERT M. HOLCOMBE LAB DIRECTOR
(864) 240-2624

F-1065 (5/96)

[WI-2021]

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